



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 100621

**TO: Marina Lamm
Location: CM1/2D15/2D19
Art Unit : 1616
Monday, August 11, 2003**

Case Serial Number: 10/088059

**From : Susan Hanley
Location: Biotech-Chem Library
CM1 6B05
Phone: 305-4053**

susan.hanley@uspto.gov

Search Notes

WEST Search History

10/088,059

DATE: Thursday, August 21, 2003

Set Name Query

side by side

Hit Count Set Name

result set

DB=JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ

L14 L13 and (cyclopent\$7 or cycloalkyl) 4 L14

L13 L12 and ((hair or keratin) near3 (dye or dying or color\$3 or tint\$3) or hairdye) 63 L13

L12 nitro adj3 phenylenediamine 103 L12

DB=PGPB; PLUR=YES; OP=ADJ

L11 nitro adj3 phenylenediamine 0 L11

DB=USPT; PLUR=YES; OP=ADJ

L10 18 and ((substantive or direct) near3 (\$4dye or dying or color\$3 or tint\$3 or dyestuff)) 20 L10

L9 18 and (substantive or direct) 37 L9

L8 L7 not l3 43 L8

L7 L6 and cationic polymer 54 L7

L6 L1 and ((hair or keratin) near3 (dye or dying or color\$3 or tint\$3) or hairdye) 174 L6

L5 L2 and ((hair or keratin) near3 (dye or dying or color\$3 or tint\$3 or dyestuff) or hairdye) 10 L5

L4 L2 and ((hair or keratin) near3 (dye or dying or color\$3 or tint\$3 or dyestuff) or hairdye) 10 L4

L3 L2 and ((hair or keratin) near3 (dye or dying or color\$3 or tint\$3) or hairdye) 15 L3

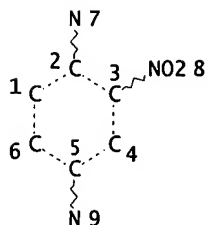
L2 L1 and (cyclopent\$7 or cycloalkyl) 114 L2

L1 nitro adj3 phenylenediamine 446 L1

END OF SEARCH HISTORY

=> d que 149
L29

STR *parent STR*



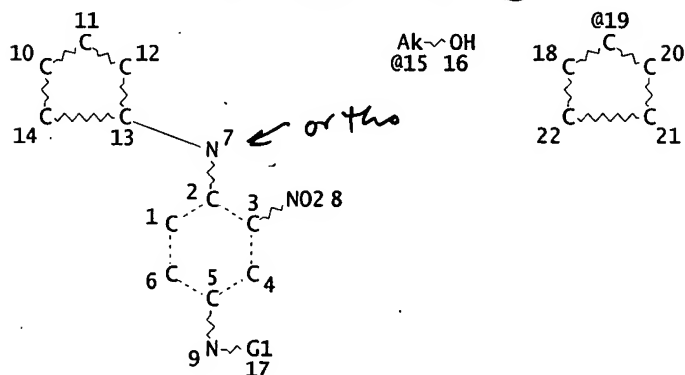
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

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L32 747 SEA FILE=REGISTRY SUB=L30 SSS FUL L29
L40 STR *subset STR* ①



VAR G1=H/15/19
NODE ATTRIBUTES:
CONNECT IS E2 RC AT 15
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE

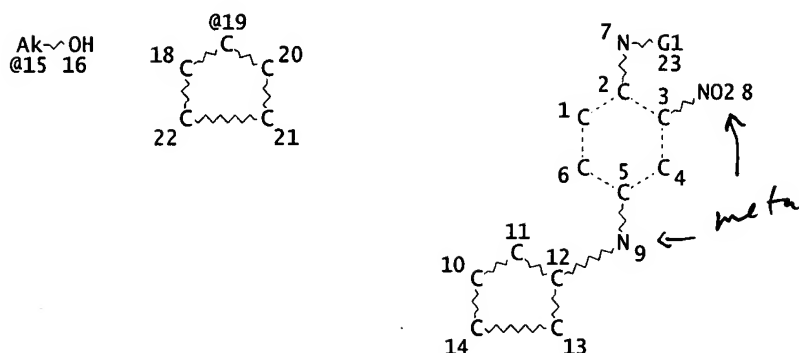
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L43 STR

subset 2

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subset 2

LAMM 10/088,059



VAR G1=H/15/19
 NODE ATTRIBUTES:
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 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RSPEC I
 NUMBER OF NODES IS 22

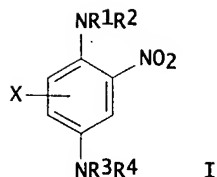
STEREO ATTRIBUTES: NONE

L44 2 SEA FILE=REGISTRY SUB=L32 SSS FUL L43 2 cys
 L45 1 SEA FILE=CAPLUS ABB=ON PLU=ON L42 1 cite
 L47 1 SEA FILE=REGISTRY ABB=ON PLU=ON L44 NOT S/ELS no sulfur
 L48 3 SEA FILE=CAPLUS ABB=ON PLU=ON L47 3 cites
 L49 4 SEA FILE=CAPLUS ABB=ON PLU=ON L45 OR L48 4 cites total

=> d ibib abs hitstr 149 1-4

L49 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2001:207824 CAPLUS
 DOCUMENT NUMBER: 134:242399
 TITLE: Hair coloring preparations based on
 2-nitro-p-phenylene-derivative direct dyes
 INVENTOR(S): Naumann, Frank; Rose, David; Meinigke, Bernd;
 Hoeffkes, Horst
 PATENT ASSIGNEE(S): Henkel K.-G.a.A., Germany
 SOURCE: Ger. Offen., 10 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19944527	A1	20010322	DE 1999-19944527	19990917
WO 2001021143	A1	20010329	WO 2000-EP8773	20000908
W: AU, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1212031	A1	20020612	EP 2000-964141	20000908
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
PRIORITY APPLN. INFO.:			DE 1999-19944527 A	19990917
			WO 2000-EP8773 W	20000908
OTHER SOURCE(S):			MARPAT 134:242399	
GI				



AB The invention concerns hair coloring formulations that contain direct dyes and at least one of the dyes is a 2-nitro-p-phenylene-deriv. (I), where R1-R4 = H, C1-C4 hydroxyalkyl, C5-ring satd., unsatd., substituted and at least one of R1-R4 is from the C5-ring group; X = H, halogen; the dyes shift the color to read. The compns. further include developers, coupling agents and can also include other direct dyes. The compns. do not contain oxidative dye precursors. Thus 1-(N-cyclopentylamino)-4-amino-2-nitrobenzene was prepd. and used in a two-component compn. Depending on the required hair shade it was combined with other dyes, e.g. HC Blue No.2. in component B along with (in g) ammonium sulfate 1, water to 100, ammonia to pH = 9. Component A contained in g: cetearyl alc. 1.00; coco fatty alcs. 1.00; Akypo RLM45N 1.10; p-hydroxybenzoic acid Pr ester 0.05; p-hydroxybenzoic acid Me ester 0.15; water to 70.

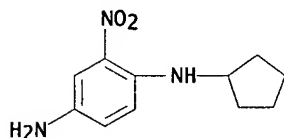
IT 330456-76-3P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(hair coloring preps. based on 2-nitro-p-phenylene-deriv. direct dyes)

RN 330456-76-3 CAPLUS

CN 1,4-Benzenediamine, N1-cyclopentyl-2-nitro- (9CI) (CA INDEX NAME)



L49 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1999:684278 CAPLUS

DOCUMENT NUMBER: 131:286541

TITLE: Bicyclic heterocyclic compds. for use as thrombin inhibitors

INVENTOR(S): Ries, Uwe; Haeu, Norbert; Priepke, Henning; Nar, Herbert; Stassen, Jean Marie; Wienen, Wolfgang

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany

SOURCE: Ger. Offen., 62 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

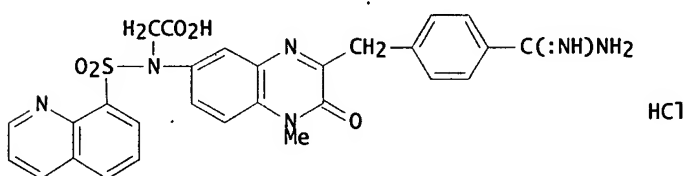
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19816983	A1	19991021	DE 1998-19816983	19980417
US 6200976	B1	20010313	US 1999-280248	19990329
CA 2323606	AA	19991028	CA 1999-2323606	19990413
WO 9954313	A1	19991028	WO 1999-EP2464	19990413

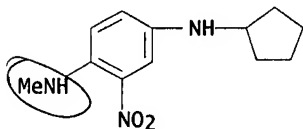
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MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
 TM, TR, TT, UA, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD,
 RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
 ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
 CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 AU 9940303 A1 19991108 AU 1999-40303 19990413
 EP 1071669 A1 20010131 EP 1999-923410 19990413
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI
 JP 2002512234 T2 20020423 JP 2000-544652 19990413
 PRIORITY APPLN. INFO.: DE 1998-19816983 A 19980417
 US 1998-88175P P 19980605
 WO 1999-EP2464 W 19990413
 OTHER SOURCE(S): MARPAT 131:286541
 GI



AB Heterocyclic compds. R-Het-A-Ar-R1 [A = O, S, CF2, CO, SO, SO2, NR2 (R2 = H, alkyl), carboxyalkyl, alkoxyalkylalkyl]; Ar = phenylene, naphthylene, thienylene, thiazolylene, pyridinylene, pyrimidinylene, pyrazinylene, pyridazinylene which may be further substituted; Het = 1-alkyl-2-oxo-1,2-dihydrothieno[2,3-b]pyrazinylene, quinolinylene, isoquinolinylene, quinazolinylene, phthalazinylene, cinnolinylene, quinoxalinylene which may be further substituted or partially hydrated; R = H, F, Cl, Br, NO2, (un)substituted aliph., NH2, NHOH, Ph, tetrazolyl, imidazolyl, SO2Ph, cycloalkyl, cycloalkenyl; R1 = CN, (un)substituted amidino] were prepd. for use as thrombin inhibitors. Thus, the benzamidine I increased the aPTT time by 200% at 0.950 .mu.M.

IT 236417-97-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of bicyclic heterocyclic compds. for use as thrombin inhibitors)
 RN 236417-97-3 CAPLUS
 CN 1,4-Benzenediamine, N4-cyclopentyl-N1-methyl-2-nitro- (9CI) (CA INDEX NAME)



L49 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1999:511140 CAPLUS

DOCUMENT NUMBER: 131:157771

TITLE: Preparation of five-membered, benzo-condensed heterocycles as antithrombotics

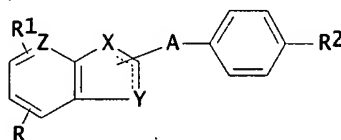
INVENTOR(S): Ries, Uwe; Huel, Norbert; Mihm, Gerhard; Priepke, Henning; Binder, Klaus; Stassen, Jean Marie; Wienen, Wolfgang; Zimmermann, Rainer

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma Kg, Germany

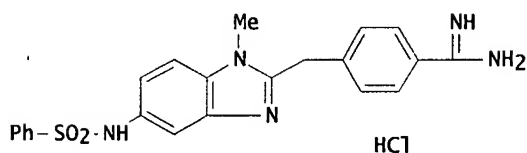
SOURCE: PCT Int. Appl., 250 pp.

DOCUMENT TYPE: CODEN: PIXXD2
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: 2 German
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9940072	A1	19990812	WO 1999-EP537	19990128
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
DE 19804085	A1	19990805	DE 1998-19804085	19980203
DE 19834325	A1	20000217	DE 1998-19834325	19980730
CA 2319494	AA	19990812	CA 1999-2319494	19990128
AU 9927201	A1	19990823	AU 1999-27201	19990128
EP 1060166	A1	20001220	EP 1999-907437	19990128
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
JP 2002502844	T2	20020129	JP 2000-530502	19990128
PRIORITY APPLN. INFO.:			DE 1998-19804085 A	19980203
			DE 1998-19834325 A	19980730
			WO 1999-EP537 W	19990128
OTHER SOURCE(S):	MARPAT 131:157771			
GI				



I



HCl

II

AB Title compds. [I; R = 5-C6H5SO2NH, 6-C6H5SO2NH, 5-C6H5NHSO2, 5-C6H5SO2N(CH2COOEt), 5-C6H5SO2N(CH3), 5-C6H5N(CH2CH2CH2COOEt)CO, 5-C6H5, CH3N(C6H5)CO, 8; R1 = H, 7-CH3, 3-Br, 3-EtO; R2 = C(:NH)NH2; A = CH2, NH; X = CH, MeN, EtOCOCH2CH2N, O, S, NCH2CO2H; Y = N, CH, CH:CH; Z = CH, N; dotted bond = single, double in relation to X; A is attached at 2, or 8 position depending on the heterocyclic ring] and their tautomers, stereoisomers, mixts. and their physiol. compatible salts with inorg. or org. acids or bases are prepd. and title compds in which R2 is a cyano group, present valuable intermediate products for the prodn. of the remaining compds. of the general formula I, with R2 is amidino, which have valuable pharmacol. properties, esp. an antithrombotic activity. Thus, the title compd. II was prepd.

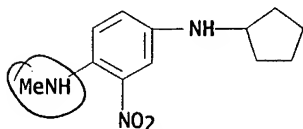
IT 236417-97-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of five-membered benzo-condensed heterocycles as antithrombotics)

RN 236417-97-3 CAPLUS

CN 1,4-Benzenediamine, N4-cyclopentyl-N1-methyl-2-nitro- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1999:505930 CAPLUS

DOCUMENT NUMBER: 131:157761

TITLE: 5-Membered heterocyclic condensed benzo derivatives, their preparation, and their use as drugs

INVENTOR(S): Ries, Uwe; Haeu1, Norbert; Mihm, Gerhard; Priepke, Henning; Binder, Klaus; Stassen, Jean Marie; Wiene, Wolfgang; Zimmermann, Rainer

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany

SOURCE: Ger. Offen., 94 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

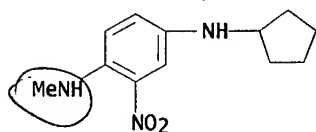
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19804085	A1	19990805	DE 1998-19804085	19980203
CA 2319494	AA	19990812	CA 1999-2319494	19990128
WO 9940072	A1	19990812	WO 1999-EP537	19990128
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RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9927201	A1	19990823	AU 1999-27201	19990128
EP 1060166	A1	20001220	EP 1999-907437	19990128
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002502844	T2	20020129	JP 2000-530502	19990128
US 6114532	A	20000905	US 1999-243200	19990202
PRIORITY APPLN. INFO.:				
DE 1998-19804085 A 19980203				
US 1998-77694P P 19980312				
DE 1998-19834325 A 19980730				
WO 1999-EP537 W 19990128				

OTHER SOURCE(S): MARPAT 131:157761

AB Approx. 300 antithrombotic title compds. such as 4-[5-[N-(8-quinolylsulfonyl)-N-(carboxymethyl)amino]-1-methyl-1H-benzimidazol-2-ylmethyl]benzamidinium hydrochloride (I), 4-[5-[N-(benzenesulfonyl)-N-(2-(dimethylamino)ethyl)amino]-1-benzyl-1H-benzimidazol-2-ylmethyl]benzamidinium dihydrochloride, 4-[5-[N-(3-carboxypropionyl)-N-(cyclopentyl)amino]-1-methyl-1H-benzimidazol-2-ylmethyl]benzamidinium hydrochloride (II), and 4-[5-[N-(8-quinolylsulfonyl)-N-(carboxymethyl)amino]-1-methyl-1H-benzothiazol-2-ylmethyl]benzamidinium hydrochloride were prepd. by std. methods. The ED200 in .mu.M for I was 0.92 and for II was 0.82. Formulations for the antithrombotics were

given.
IT 236417-97-3P, N-Cyclopentyl-4-methylamino-3-nitroaniline
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and antithrombotic activity of benzimidazolylmethylbenzamidines
)
RN 236417-97-3 CAPLUS
CN 1,4-Benzenediamine, N4-cyclopentyl-N1-methyl-2-nitro- (9CI) (CA INDEX
NAME)



10/088,059

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memory\$<ü iJ~WWR¹-~¾æ^<pýIt~~~'~Å«ëö†_óÿ„¹!G
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